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## INDEX TO AMERICAN BOTANICAL LITERATURE

1915

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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**Appel, O.** The control of cereal and grass smut and the *Helminthosporium* disease in Holland and Germany. *Phytopathology* 5: 230-232. Au 1915.

**Arthur, J. C.** Uredinales of Porto Rico based on collections by F. L. Stevens. *Mycologia* 7: 168-196. 28 Jl 1915.

Includes descriptions of *Ravenelia Stevensii*, *Argomyces insulanus*, and *Uromyces densus*, spp. nov.

**Bailey, I. W., & Shepard, H. B.** Sanio's laws for the variation in size of coniferous tracheids. *Bot. Gaz.* 60: 66-71. f. 1. 16 Jl 1915.

**Bailey, L. H.** Some present needs in systematic botany. *Proc. Am. Philos. Soc.* 53: 58-65. 19 Je 1915.

**Bakke, A. L.** The water relations of the mesquite. *Ames Forester* 3: 87-91. 1915. [Illust.]

**Ball, C. R.** Notes on North American willows—II. *Bot. Gaz.* 60: 45-54. f. 1-3. 16 Jl 1915.  
Includes *Salix pennata* sp. nov.

**Blake, S. F.** A revision of *Salmea* and some allied genera. *Jour. Bot.* 53: 193-202. Jl 1915; 225-235. Au 1915.  
Five new species are described.

**Blake, S. F.** Some neglected names in Walter's Flora Caroliniana. *Rhodora* 17: 129-137. 10 Jl 1915.

- Blake, S. F.** *Steiractinia*, a new genus of Compositae. Jour. Bot. **53**: 153-158. *pl.* 539. Je 1915.  
Six new species are described.
- Blake, S. F.** Three new *Perymeniums*. Jour. Bot. **53**: 135-137. My 1915.
- Blake, S. F.** *Trichospira verticillata* (L.) Blake n. comb. Torreya **15**: 106. 29 Je 1915.
- Blodgett, F. M.** Sweet pea powdery mildew. Phytopathology **5**: 237. Au 1915.
- Bonazzi, A.** Cytological studies of *Azotobacter chroococcum*. Jour. Agr. Research **4**: 225-240. *pl.* 31-33. 15 Je 1915.
- Bose, J. C.** Plant-autographs and their revelations. Smithsonian Inst. Ann. Rep. **1914**: 421-443. *f.* 1-18. 1915.
- Brannon, M. A.** The action of Salton Sea water on vegetable tissues. Carnegie Inst. Wash. Publ. 193: 71-78. *pl.* 12-14. 1915.
- Britton, N. L.** Further botanical exploration of Porto Rico. Jour. N. Y. Bot. Gard. **16**: 103-112. 5 Jl 1915.
- Britton, N. L.** Studies of West Indian plants—VI. Bull. Torrey Club **42**: 365-392. 29 Jl 1915.  
Includes descriptions of 43 new species in *Coccolobis* (5), *Tabebuia* (14), *Anaspathia* (12), *Cyperus* (1), *Psilocarya* (1), *Rynchospora* (1), *Cassia* (1), *Purdiaea* (3), *Rheedia* (1), *Mayepea* (1), *Agalinis* (1), *Piriqueta* (1) and *Jacaranda* (1).
- Brown, F. B. H.** Variation in the size of ray pits of conifers. Ohio Nat. **15**: 542-550. *f.* 1-6. Je 1915.
- Brown, W. H.** The development of *Pyronema confluens* var. *inigneum*. Am. Jour. Bot. **2**: 289-298. Je 1915.
- Burlingame, L. L.** The origin and relationships of the Araucarians.—I. Bot. Gaz. **60**: 1-26. 16 Jl 1915;—II. Bot. Gaz. **60**: 89-114. 14 Au 1915.
- Carleton, M. A.** A serious new wheat rust in this country. Science **II. 42**: 58, 59. 9 Jl 1915.
- Chase, A.** Impressions of the ferns of Porto Rico. Am. Fern Jour. **5**: 79-83. Jl 1915.
- Clark, E. D.** Note on the blackening of the leaves of the wild indigo (*Baptisia tinctoria*) and the isolation of a new phenol, Baptisol. Jour. Biol. Chem. **21**: 645-660. Jl 1915.
- Cobb, M. V.** Relationships of the white oaks of eastern North America, with an introductory sketch of their phylogenetic history. Proc. Am. Philos. Soc. **54**: 165-175. *pl.* 4-6. 7 Jl 1915.

- Cockerell, T. D. A.** Animals and plants described as new from Colorado in 1912, 1913, and 1914. Univ. Colorado Bull. **15**: 213-251. Je 1915.
- Collins, J. F.** The chestnut bark disease on freshly fallen nuts. Phytopathology **5**: 233-235. f. 1. Au 1915.
- Copeland, E. B.** Notes on Bornean ferns. Philip. Jour. Sci. **10**: (Bot.) 145-151. pl. 1. Mr 1915.  
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- Davis, B. M.** A method of obtaining complete germination of seeds in *Oenothera* and of recording the residue of sterile seed-like structures. Proc. Nat. Acad. Sci. **1**: 360-363. Je 1915.
- Deane, W.** A correction concerning *Sagittaria teres* Watson and *Potamogeton lucens* L. Rhodora **17**: 142. 10 Jl 1915.
- Dodge, B. O.** Relationship between *Roestelia transformans* and *R. Botryophites*. Torreya **15**: 133, 134. 16 Jl 1915.
- Earle, F. S., & Rogers, J. M.** *Citrus* pests and diseases at San Pedro in 1915. Ann. Rep. San Pedro Citrus Path. Lab. **1**: 5-41. f. 1-19. My 1915.
- East, E. M.** The chromosome view of heredity and its meaning to plant breeders. Am. Nat. **49**: 457-494. Au 1915.
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- Edson, H. A.** *Rheosporangium aphanidermatus*, a new genus and species of fungus parasitic on sugar beets and radishes. Jour. Agr. Research **4**: 279-292. pl. 44-48. 15 Jl 1915.
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- Evans, A. W.** Notes on New England Hepaticae—XII. Rhodora **17**: 107-120. 18 Je 1915.
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- Fernald, M. L.** The American variations of *Lycopodium annotinum*. Rhodora **17**: 123-125. 18 Je 1915.
- Fernald, M. L.** Michaux's *Panicum muricatum*. Rhodora **17**: 105-107. 18 Je 1915.
- Fernald, M. L.** A new *Carex* from Newfoundland. Rhodora **17**: 158, 159. Au 1915.

- Fink, B.** The Ascomycetes of Ohio—I. Preliminary consideration of classification. Ohio State Bull. 19: 3-34. *pl.* 1, 2. Je 1915.  
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- Fink, B., & Richards, C. A.** The Ascomycetes of Ohio—II. The Collemaceae. Ohio State Univ. Bull. 19: 35-70. *pl.* 3-6. Je 1915.  
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- Gager, C. S.** Rare cycads from Australia. Brooklyn Bot. Gard. Record 4: 83-92. *f.* 9-15. Jl 1915.
- Giddings, N. J., & Berg, A.** Apple rust or cedar rust in West Virginia. W. Virginia Agr. Exp. Sta. Circ. 15: 1-16. Mr 1915. [Illust.]
- Gilbert, A. W.** Heredity of color in *Phlox Drummondii*. Jour. Agr. Research 4: 293-302. *pl.* c-e. 15 Jl 1915.
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- Johnston, J. R.** Entomogenous fungi of Porto Rico. Porto Rico Board Comm. Agr. Bull. **10**: 1-33. pl. 1-9. 1915.
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- Kunkel, L. O.** A contribution to the life history of *Spongospora subterranea*. Jour. Agr. Research **4**: 265-278. pl. 39-43. 15 Je 1915.
- Macbride, J. F.** *Sisymbrium brachycarpon* and allies. Rhodora **17**: 138-141. Jl 1915.
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